CPC COOPERATIVE PATENT CLASSIFICATION

B03B SEPARATING SOLID MATERIALS USING LIQUIDS OR USING PNEUMATIC

TABLES OR JIGS (removing fluids from solids <u>B01D</u>; magnetic or electrostatic separation of solid materials from solid materials or fluids, separation by high voltage electric fields <u>B03C</u>; flotation differential sedimentation <u>B03D</u>; separating by dry methods <u>B07</u>; screening or sifting <u>B07B</u>; by picking <u>B07C</u>; separating peculiar to particular materials and provided for in other single classes, <u>see</u> the relevant classes)

1/00	Conditioning for facilitating separation by altering physical properties of the matter to be treated (pre-	5/36	• • Devices therefor, other than using centrifugal force (jigs <u>B03B 5/10</u>)
	treatment of ores in general C22B {Pretreatment prior	5/38	of conical receptacle type
	to magnetic separation <u>B03C 1/00</u> })	5/40	• • • of trough type
1/02	 Preparatory heating 	2005/405	• • • • {using horizontal currents}
1/04	 by additives 	5/42	of drum of lifting wheel type
1/06	 by varying ambient atmospheric pressure 	5/44	Application of particular media therefor
4/00	Separating by pneumatic tables or by pneumatic	5/442	• • • {composition of heavy media}
4/00	jigs (sink-float separation using dry heavy media	5/445	{composition of dry heavy media}
	B03B 5/46)	5/447	• • • {recovery of heavy media}
		5/46	using dry heavy media; Devices therefor
	<u>NOTE</u>	5/48	 by mechanical classifiers (sink-float separation
	Group B03B 4/005 takes precedence over groups		aspects <u>B03B 5/28</u>)
	<u>B03B 4/02</u> - <u>B03B 4/065</u>	5/50	Rake classifiers
4/005	(the auments being mulgeting a a manuscrip ii as	5/52	Spiral classifiers
4/003	 {the currents being pulsating, e.g. pneumatic jigs; combination of continuous and pulsating currents} 	5/54	Drag classifiers
4/02	 using swinging or shaking tables 	5/56	Drum classifiers
4/04	 using swinging or shaking tables using rotary tables or tables formed by travelling 	5/58	Bowl classifiers
4/04	belts (separating solids from solids using gas	5/60	 by non-mechanical classifiers, e.g. slime tanks
	currents and revolving drums <u>B07B 4/06</u>)		(using shaken, pulsated or stirred beds as the
4/06	 using fixed and inclined tables; {using stationary 		principal means of separation <u>B03B 5/02</u> ; hydraulic
4/00	pneumatic tables, e.g. fluidised beds}		classifiers <u>B03B 5/62</u> ; water impulse classifiers
4/065	 • {having inclined portions} 		<u>B03B 5/68</u>)
4/003	• • (having member portions)	5/62	 by hydraulic classifiers, e.g. of launder, tank, spiral
5/00	Washing granular, powdered or lumpy materials;		or helical chute concentrator type
	Wet separating (separating by pneumatic tables or by	5/623	• • {Upward current classifiers}
	pneumatic jigs <u>B03B 4/00</u>)	5/626	• • {Helical separators}
5/02	 using shaken, pulsated or stirred beds as the 	5/64	• of the free settling type
	principal means of separation (B03B 5/28,	5/66	of the hindered settling type
5 /0 4	B03B 5/48 take precedence)	5/68	• by water impulse (shaking tables <u>B03B 5/04</u> ; jigs
5/04	• on shaking tables (on vanners <u>B03B 5/08</u>)		<u>B03B 5/10</u> ; hydraulic classifiers <u>B03B 5/62</u>)
5/06	• • Constructional details of shaking tables, e.g.	5/70	on tables or strakes
5 (00	riffling	5/72	which are movable
5/08	• • on vanners	5/74	Revolving tables
5/10	• on jigs	7/00	Combinations of wet processes or apparatus with
5/12	• • • using pulses generated mechanically in fluid	7700	other processes or apparatus, e.g. for dressing ores
5/14	Plunger jigs		or garbage
5/16	Diaphragm jigs		
5/18	Moving-sieve jigs	9/00	General arrangement of separating plant, e.g. flow
5/20	using pulses generated by air injection		sheets
5/22	using pulses generated by liquid injection	9/005	• {specially adapted for coal}
5/24	Constructional details of jigs, e.g. pulse control	9/02	• specially adapted for oil-sand, oil-chalk, oil-shales,
- /	devices	6 /0 /	ozokerite, bitumen, or the like
5/26	. in sluices	9/04	• specially adapted for furnace residues, smeltings, or
5/28	• by sink-float separation	0./02	foundry slags
5/30	using heavy liquids or suspensions	9/06	• specially adapted for refuse
5/32	• • using centrifugal force (centrifuges <u>B04B</u> ;	9/061	{the refuse being industrial}
= 10 ·	cyclones <u>B04C</u>)	9/062	{the refuse being glass}
5/34	Applications of hydrocyclones	9/063	• • • {the refuse being concrete slurry}
		9/065	• • • {the refuse being building rubble}

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B03B	
2009/066 2009/067 2009/068	 the refuse being batteries} the refuse being carpets} {Specific treatment of shredder light fraction}
11/00	Feed or discharge devices integral with washing or wet-separating equipment (filling or emptying devices per se B65G 65/30)
2011/002	• {Rotary feeding devices}
2011/004	• {Lifting wheel dischargers}
2011/006	• {Scraper dischargers}
2011/008	• {Screw dischargers}
2011/000	• {Sciew dischargers}
13/00	Control arrangements specially adapted for wet- separating apparatus or for dressing plant, using physical effects (detecting, measuring, or analysing devices <u>G01</u> ; control devices in general <u>G05</u>)
	Control arrangements specially adapted for wet- separating apparatus or for dressing plant, using physical effects (detecting, measuring, or analysing
13/00	Control arrangements specially adapted for wet-separating apparatus or for dressing plant, using physical effects (detecting, measuring, or analysing devices G01; control devices in general G05) • {Methods or arrangements for controlling the physical properties of heavy media (in relation with groups B03B 5/30 - B03B 5/46), e.g. density,
13/00 13/005	Control arrangements specially adapted for wet-separating apparatus or for dressing plant, using physical effects (detecting, measuring, or analysing devices <u>G01</u> ; control devices in general <u>G05</u>) • {Methods or arrangements for controlling the physical properties of heavy media (in relation with groups <u>B03B 5/30</u> - <u>B03B 5/46</u>), e.g. density, concentration, viscosity}

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